

# EUROPEAN PATENT OFFICE

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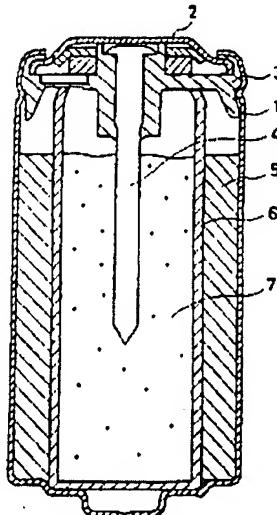
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TITLE : ZINC ALKALINE BATTERY



**ABSTRACT :** PURPOSE: To enhance the corrosion resistance of negative electrode zinc by employing a specific polyoxyethylene fatty acid amid as the anticorrosive of the negative electrode active material of a battery that uses zinc as negative electrode active material and an alkaline aqueous solution as electrolyte.

**CONSTITUTION:** The positive electrode binding agent 5 of manganese dioxide, a separator 6 and a zinc electrode 7 are formed inside a positive electrode can 1. A current collecting bar 2 which electrically connects a negative electrode plate 2 and the negative electrode 7 via a gasket 3 is formed at the opening of the can 1 and an alkaline aqueous solution is used as electrolyte. And the polyoxyethylene fatty acid amid expressed by the expression I is used as the anticorrosive of the negative electrode 7, whereby a battery is formed. The anticorrosive forms a film on the surface of the negative electrode 7 to interrupt the access of hydroxide ions that may cause anode reaction, and that of water molecules necessary for cathode reaction. The rate of amalgamation caused by corrosion of the zinc is reduced to enhance the corrosion resistance of the negative electrode zinc.

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